



CONSTRUCTION EQUIPMENT

REGION OF PEEL 8-373811 VOLVO L60G 622568 - DIESEL ENGINE



Sample No: VCP380449
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-373811



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP380449 | VCP381015 | VCP352285 | VCP347383 |
| Sample Date | 04 Aug 2023 | 06 Jan 2023 | 17 Jun 2022 | 14 Jan 2022 |
| Machine Hours | 1970 | 1475 | 972 | 525 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

STRONGCO EQUIPMENT INC.

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OIL CONDITION

| | | | | | |
|----------------|-----|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.5 | 13.2 | 13.1 | 12.7 |
| Oxidation (PA) | % | 78 | 87 | 53 | 49 |



CONTAMINATION

| | | | | | |
|----------------|-----|--------------|------|------|------|
| Soot % | % | 0.1 | 0 | 0 | 0 |
| Nitration (PA) | % | 58 | 64 | 46 | 46 |
| Sulfation (PA) | % | 61 | 65 | 55 | 51 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | 1.2 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 6 | 6 | 8 | 14 |
| Sodium | ppm | 3 | 3 | 3 | 4 |
| Potassium | ppm | <1 | <1 | <1 | 1 |

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. The water content is negligible. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 16 | 12 | 15 | 26 |
| Copper | ppm | 1 | 1 | 1 | 6 |
| Lead | ppm | 0 | 0 | <1 | 1 |
| Tin | ppm | <1 | <1 | <1 | 2 |
| Aluminum | ppm | 3 | 4 | 4 | 12 |
| Chromium | ppm | 1 | <1 | 2 | 4 |
| Molybdenum | ppm | 40 | 43 | 41 | 50 |
| Nickel | ppm | 0 | <1 | <1 | <1 |
| Titanium | ppm | 0 | <1 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | 4 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 1703 | 1716 | 1776 | 1600 |
| Magnesium | ppm | 522 | 529 | 511 | 497 |
| Zinc | ppm | 1090 | 1102 | 1096 | 1130 |
| Phosphorus | ppm | 965 | 1006 | 946 | 995 |
| Barium | ppm | <1 | 0 | 0 | 1 |
| Boron | ppm | 43 | 43 | 48 | 54 |

Depot: SHEMIS
Unique No: 5619531
Signed: Wes Davis
Report Date: 09 Aug 2023



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GRAPHS

